

# ReducX Test Kit

# ETT002

## KIT COMPONENTS:

PI1411-B	Potassium Iodide 10%, 60 mL
PH7500-B	Phosphoric Acid 40%, 60 mL
AM1965-B	Ammonium Molybdate 4%, 60 mL
ST5091-B	Starch Indicator Solution 0.5%, 60 mL
ST2877-B	Sodium Thiosulfate 0.0846N, 60 mL
SY-2005-P	Syringe, 5 mL
VL-1005-V	Vial, 10-50 mL

**INTERFERENCES:** All oxidizers, including Chlorine, are positive interferences for this test. Interferences include, a pH over 8, Total Hardness over 1000 ppm, Sulfate over 1000 ppm, Total Alkalinity over 150 ppm, any concentration of Nitrite, Nitrate over 200 ppm, Silica Dioxide over 50 ppm, Copper over 10 ppm, any concentration of Ferrous Iron (Fe<sup>2+</sup>), and Ferric Iron (Fe<sup>3+</sup>) over 5 ppm.

## SAFETY TIPS:



Wear  
Gloves



Use Eye  
Protection



Read  
SDS

## TESTING TIPS:



Collect  
Accurate  
Sample



Hold  
Bottles  
Vertically



Ensure  
Proper  
Lighting

**ATTENTION:** As necessary, calibrate this kit against a known standard made with plant / make-up water. Be sure to collect a representative sample.

It is important that each reagent be added and then mixed well for at least 5 seconds before the addition of the subsequent reagent.



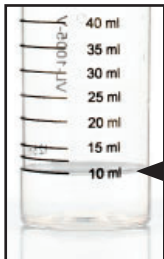
**1 Select a sample size** based on the desired drop equivalency. For smaller sample sizes, use a 5 mL syringe to collect the sample and dilute to 10 mL if necessary.

- 1 drop = 50 ppm 10 mL sample
- 1 drop = 100 ppm 5 mL sample
- 1 drop = 200 ppm 2.5 mL sample
- 1 drop = 500 ppm 1 mL sample

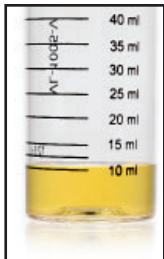
**2 Add 5 drops of Potassium Iodide 10%** (PI1411) and swirl to mix.

**3 Add 5 drops of Phosphoric Acid 40%** (PH7500) and swirl to mix.

**4 Add 5 drops of Ammonium Molybdate 4%** (AM1965) and swirl to mix. **Wait 15 seconds.**



**STEP 1**



**STEP 4**

**5 Add 5 drops of Starch Indicator Solution 0.5%** (ST5091) and swirl to mix. Sample should turn a dark color.

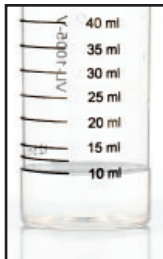
**6 Add Sodium Thiosulfate 0.0846N** (ST2877) one drop at a time while swirling. Count the number of drops until the sample turns colorless for at least 10 seconds.

Count the ppm of ReducX using the following:

$$\# \text{ of drops} \times \text{factor} = \text{ppm ReducX}$$



**STEP 5**



**STEP 6**

## ReducX Titration Chart

Conc. (ppm as Product)	ReducX Dose (oz.)	Water Volume (gal.)
1420	1	6
2840	2	6
4260	3	6
5680	4	6
7100	5	6
240	0.28	10
426	0.5	10
850	1	10
1065	1.25	10
1700	2	10
2550	3	10
3400	4	10
4260	5	10
5110	6	10
5450	6.4	10